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United States
Department of
Agriculture

Soil
Conservation
Service

Casper,
Wyoming

Wyoming
Water Supply Outlook

COMPLETED
IES
587
ORIGINAL

May 1, 1986

IMPORTANT NOTICE INSIDE BACK COVER

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Foreword

How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall. This snowfall accumulates high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are viewed in conjunction with snowpack data to prepare runoff forecasts. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data and narratives describing current conditions.

Streamflow forecasts are cooperatively generated by Soil Conservation Service and National Weather Service hydrologists. Forecasts become more accurate as more data affecting runoff becomes known. For this reason, forecasts are issued that reflect three future precipitation conditions — Below Normal, Average, and Above Normal. These forecasts are termed reasonable minimum, most probable, and reasonable maximum. Actual streamflow can be expected to fall between the lower and upper forecast values eight out of ten years.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation, temperature, and other parameters are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. Because of the limited space, snow survey measurements are not published in monthly reports. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

STATE	ADDRESS
Alaska	201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687
Arizona	201 East Indianola, Suite 200, Phoenix, AZ 85012
Colorado (New Mexico)	2490 West 26th Ave., Denver, CO 80211
Idaho	304 North 8th Street, Room 345, Boise, ID 83702
Montana	10 East Babcock, Room 443, Federal Building, Bozeman, MT 59715
Nevada	50 South Virginia Street, Third Floor, Reno, NV 89505
Oregon	1220 Southwest 3rd Ave., 16th Floor, Portland, OR 97204
Utah	4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147
Washington	360 U.S. Court House, Spokane, WA 99201
Wyoming	Federal Building, 100 East "B" Street, Casper, WY 82602

In addition to state reports, a Water Supply Outlook for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 547, Portland, OR 97209.

Published by other agencies:

Water Supply Outlook Reports prepared by other agencies include: California — Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 95802; British Columbia — The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A 3V1; Alberta, Saskatchewan, and N.W.T. — The Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta, T3C 1A8.

Wyoming

Water Supply Outlook
and

Federal-State-Private
Cooperative Snow Surveys

Issued by

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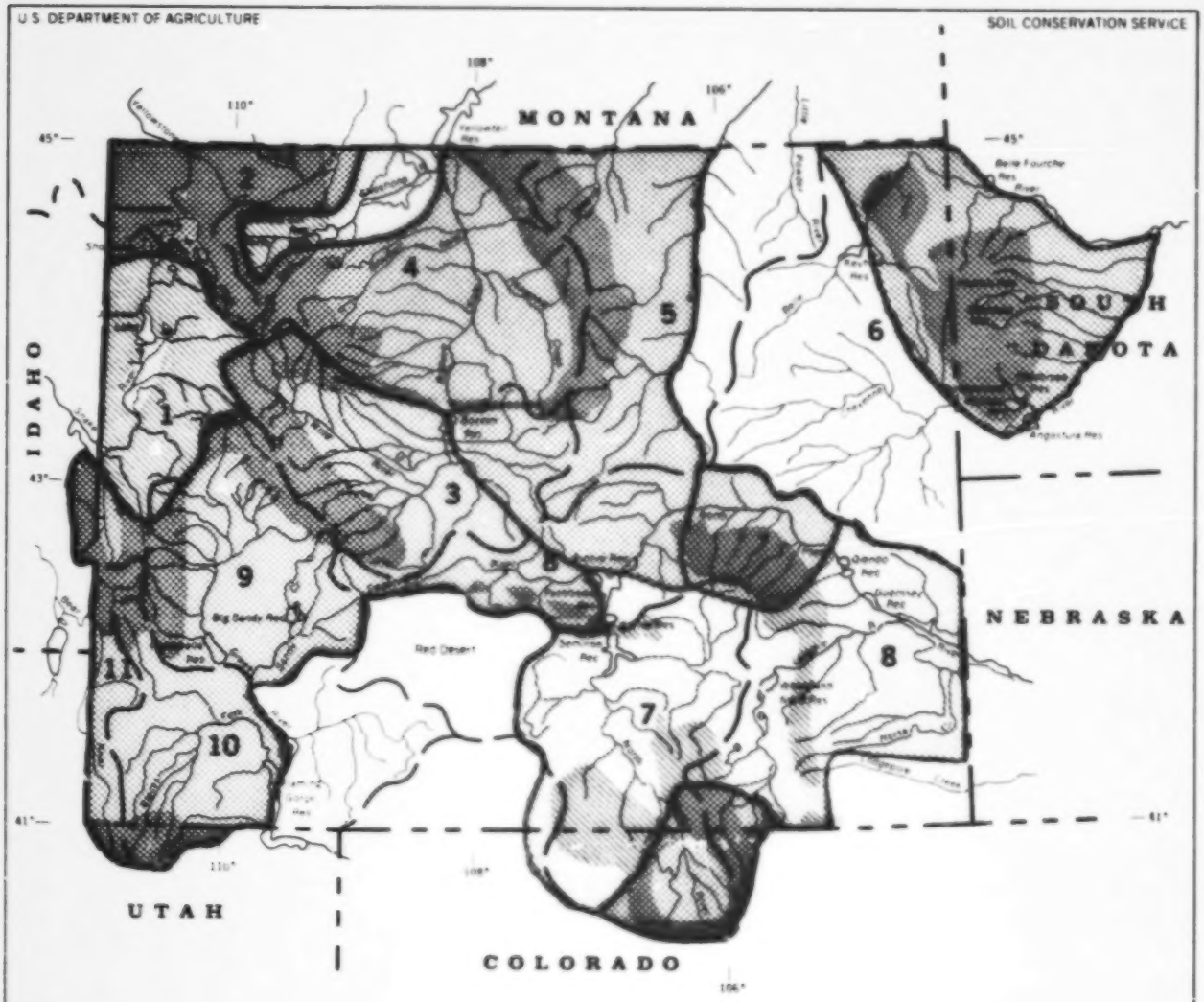
Programs and assistance of the United States Department of Agriculture are available without regard to race, creed, color, sex, age, or national origin.

U S DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE



LEGEND
SPRING AND SUMMER PERIOD
(PERCENT OF AVERAGE)

- MUCH ABOVE AVERAGE 130+
- ABOVE AVERAGE 110 130
- NEAR AVERAGE 90 110
- BELOW AVERAGE 70 90
- MUCH BELOW AVERAGE 70 & LESS
- NOT FORECAST
- MOUNTAIN AREAS

RIVER BASINS

1 SNAKE
2 UPPER YELLOWSTONE AND MADISON
3 WIND
4 BIG HORN
5 POWDER AND TONGUE
6 BELLE FOURCHE AND CHEYENNE
7 UPPER NORTH PLATTE AND LITTLE SNAKE
8 LOWER NORTH PLATTE SWEETWATER AND LARAMIE
9 UPPER GREEN
10 LOWER GREEN
11 UPPER BEAR

STREAMFLOW PROSPECTS
WYOMING

0 25 50 75 100 MI

0 50 100 150 KM

SOURCE Data compiled by SCS Field Personnel.

JULY 1985 4 R 39346

USDA SCS FORT WORTH, TEXAS 1985

FORMERLY 7 L 22029G

GENERAL OUTLOOK

SUMMARY:

WATER SUPPLYS TO MEET USERS NEEDS SHOULD BE ADEQUATE THIS SPRING AND SUMMER THROUGHOUT WYOMING. ONLY DEER AND LaPRELE CREEKS WILL EXPERIENCE BELOW NORMAL FLOWS. HIGH ELEVATION SNOWPACK OVER MUCH OF THE STATE IS ABOVE AVERAGE. RESERVOIR STORAGE IS LESS THAN AT THIS TIME LAST YEAR, BUT IS SLIGHTLY ABOVE AVERAGE. APRIL PRECIPITATION FOR MOST OF THE REPORTING STATIONS WAS ABOVE AVERAGE.

SNOWPACK:

Snowpack buildup throughout the state remains near average to much above average. Noted exceptions are the northeast facing mountains of the Laramie Mountains along the Deer Creek, Boxelder Creek and LaPrele Creek drainages, the upper portions of Crazy Woman Creek drainage on the east face of the Big Horns, and the Nowood River drainage on the west slopes of the Big Horns. These drainages average only about 83% to 89% of the usual snowpack accumulation. The upper Green River, Wind River and upper Laramie River drainages continue to be much above average, with some snow courses being as much as 79% above average. Some melting is starting to take place at some of the intermediate elevations. For the most part, snow at the lower elevation courses (7500 feet and below) is gone.

PRECIPITATION:

April is normally one of the heaviest snowfall months in Wyoming. Several large snowstorms did occur in a few areas.

Along the southwest corner north to Alta in the Green, Bear and Snake drainages, one-half to two- thirds of the days had precipitation. The snowstorm on the 12th dumped 10" at Bedford. Monthly averages were 50% to 200% above normal. The northwest corner was normal.
Low elevation precipitation in central areas was normal to 50% below normal, since snowfall totals were about one-half of normal. However, Dubois in the Wind River drainage was the exception (+170%) since a storm on the 9th dumped 10".

Monthly averages in the east were 50% to 150% above normal. In the northeast near Alva the greatest of water equivalent (5.58") occurred. In the southeast

a blizzard on the 3rd left about 15" of new snow at Albin.

Seasonal comparisons remained mostly above normal. The Green and Bear drainages were 50% to 100% above normal. Central and northwest areas were normal to 25% above normal, while the eastern part of the state was around 50% above normal.

RESERVOIRS:

Storage in major reservoirs is about 10% less than at this time last year, but is nearly 3% more than average. Current stored capacity statewide is about 57% of the total available. Several of the larger reservors have been drawn down in anticipation of above average snowmelt runoff.

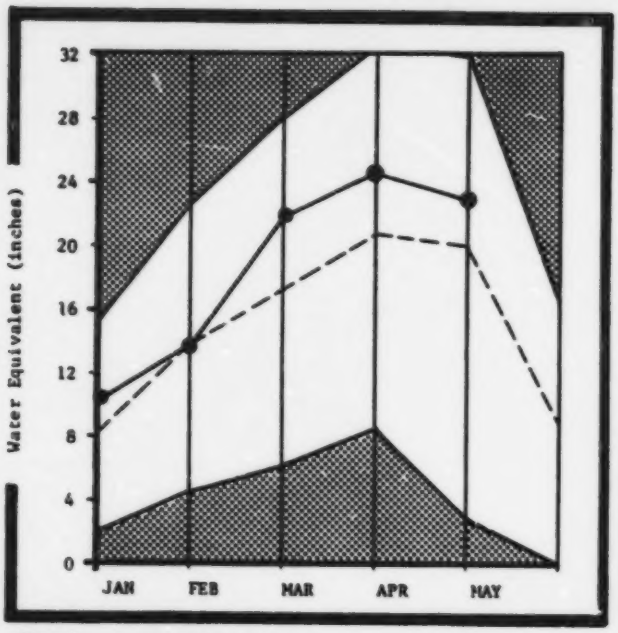
STREAMFLOW:

Streamflow prospects for spring and summer remain very bright for most of the state. Only Deer Creek and La Prele Creek, tributaries to the North Platte River in east-central Wyoming, are forecast to be less than average. These drainages are predicted to be only about 60% to 65% of normal. The Bear River, Green River, Wind River, upper North Platte River and upper Laramie River drainages are forecast to be much above average. These drainages are expected to be from 30% to nearly 100% above normal. The remainder of the streams in the state are forecast to be between 5% to 30% above normal. At this point water users should have adequate supplies this year.

These forecasts are dependent upon average snowfall accumulations for the remaining portion of the snow season. The forecasts in this bulletin are a result of coordinated activity between the Soil Conservation Service and the National Weather Service in an effort to provide the best possible service to the water user.

SNAKE RIVER BASIN

MOUNTAIN SNOWPACK*



*Based on selected stations

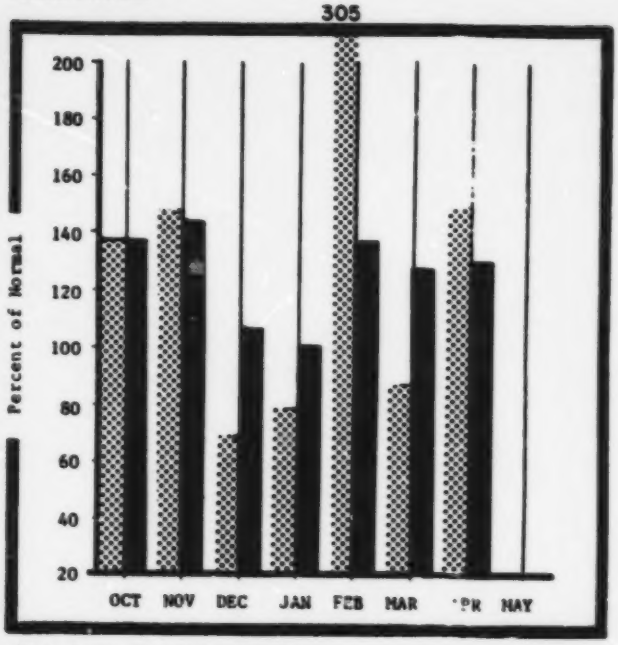
Maximum

Minimum

Average

Current

PRECIPITATION*



*Based on selected stations

Monthly precipitation

Year to date precipitation

WATER SUPPLY OUTLOOK:

Streamflow forecasts for this basin show that users can expect flows to be 12% to 20% above normal. Snowpack accumulation at the high elevations is nearly 22% above average, and nearly 81% above last year. Reservoir storage is only 48% of average mainly because of storage restrictions due to construction on Jackson Lake Dam. April precipitation was about 50% above normal, with the water year to date accumulation being 31% above normal.

For more information contact your local Soil Conservation Service office.

SNAKE RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
SNAKE RIVER near Moran *	APR-SEP	880.0	1060.0	113	123	105				
SNAKE RIVER above Palisades *	APR-SEP	2730.0	3170.0	116	125	107				
SNAKE RIVER at Heise, ID *	APR-SEP	4066.0	5010.0	123	133	113				
PACIFIC CREEK at Moran	APR-SEP	174.0	210.0	120	139	103				
GREYS RIVER above Palisades	APR-SEP	393.0	510.0	129	148	112				
SALT RIVER near Etna	APR-SEP	394.0	515.0	130	158	97				
PALISADES RESERVOIR Inflow *	APR-SEP	3793.0	4540.0	119	129	111				
SWIFT CREEK near Afton	MAY-SEP	46.0	46.0	100	117	83				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
GRASSY LAKE	15.1	14.0	13.6	11.0
JACKSON LAKE	624.4	93.9	75.2	317.6
PALISADES	1200.0	495.3	1147.6	718.5

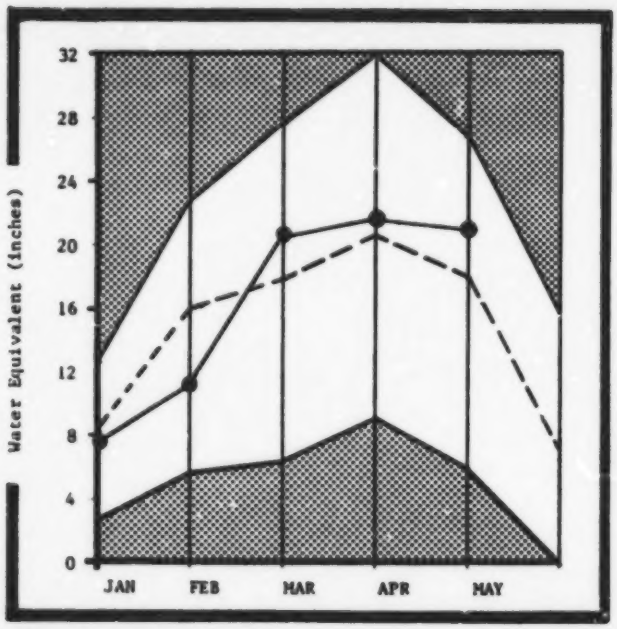
WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
SNAKE above JACKSON LAKE	2	141	114
PACIFIC CREEK	0	0	0
GROS VENTRE RIVER	3	206	128
HOBACK RIVER	6	184	131
GREYS RIVER	2	189	122
SALT RIVER	4	182	126
SNAKE above PALISADES	14	154	120

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-90 period.

UPPER YELLOWSTONE AND MADISON RIVER BASINS

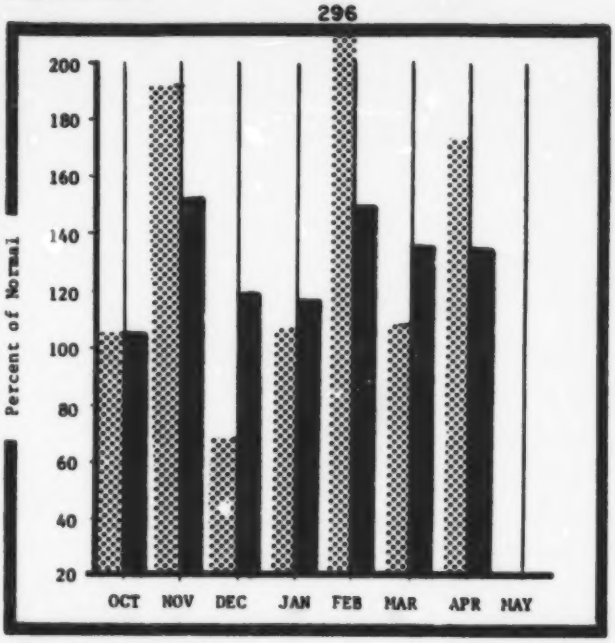
MOUNTAIN SNOWPACK*



*Based on selected stations

Maximum
Minimum
Average
Current

PRECIPITATION*



*Based on selected stations

Monthly precipitation
Year to date precipitation

WATER SUPPLY OUTLOOK:

Snowpack accumulation in the basin is slightly above average, however, it is about 52% greater than last year. Streamflows are forecast to be nearly normal. Reservoir capacity is about 77% of total available capacity, and is nearly 21% above normal. Precipitation during the month was 75% above average.

For more information contact your local Soil Conservation Service office.

UPPER YELLOWSTONE and MADISON RIVER BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
YELLOWSTONE RIVER at Lake Outlet	APR-SEP	826.0	900.0	108	121	97				
YELLOWSTONE RIVER at Corwin Spgs.	MAY-SEP	1944.0	1820.0	93	104	82				
YELLOWSTONE RIVER near Livingston	MAY-SEP	2269.0	2100.0	92	105	81				
MADISON RIVER near Grayling, MT *	MAY-SEP	440.0	470.0	106	119	95				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
EMNIS LAKE	41.0	33.0	30.3	36.3
HEBGEN LAKE	377.5	289.3	289.4	229.7

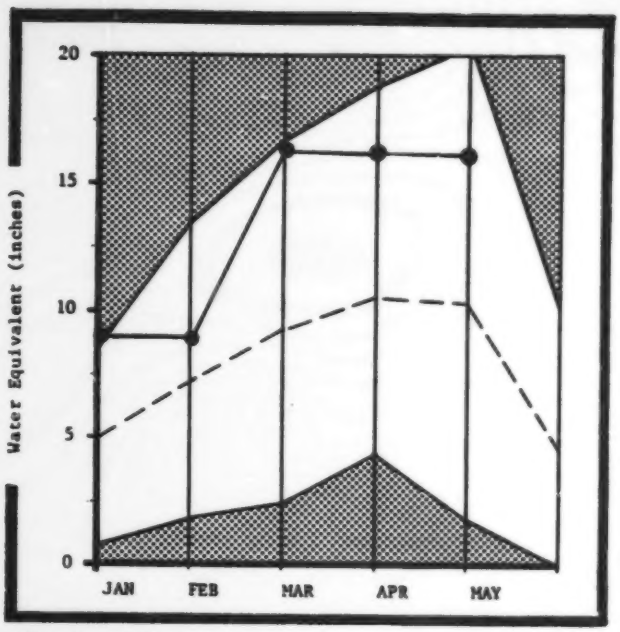
WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
UPPER MADISON RIVER	9	145	108
CLARKS FORK	20	158	98
UPPER YELLOWSTONE RIVER	12	179	102

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

WIND RIVER BASIN

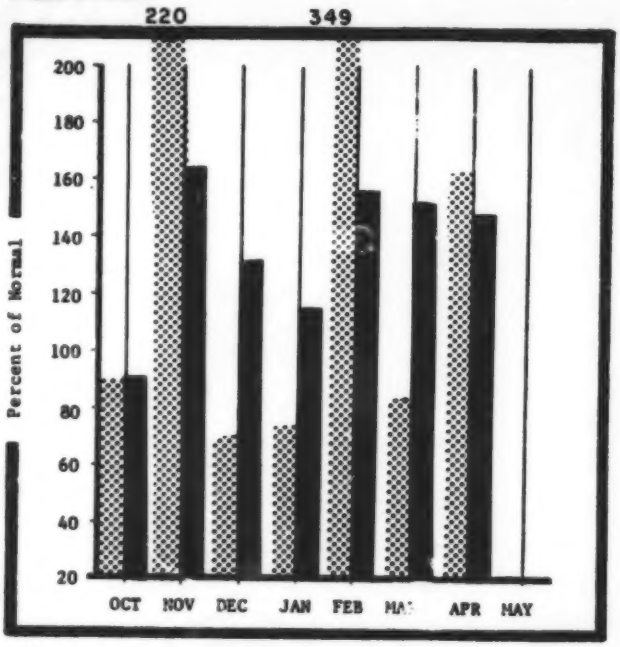
MOUNTAIN SNOWPACK*



*Based on selected stations

Maximum
Average
Minimum
Current

PRECIPITATION*



*Based on selected stations

Monthly precipitation
Year to date precipitation

WATER SUPPLY OUTLOOK:

Water users in this basin can expect streamflows that will be much above average. Flows are forecast to be as much as 41% above normal. Snowpack accumulation continue to be much above normal. Snowcourse reading show that the snowpack is 40% above average, and nearly 134% ahead of last years accumulation. April precipitation was above average by nearly 62%. Reservoir storage currently is 62% above average and nearly 47% greater than last year at this time. Much of the low elevation snow in this basin is gone.

For more information contact your local Soil Conservation Service office.

WIND RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
WIND RIVER near Dubois	APR-SEP	106.0	140.0	132	150	114				
WIND RIVER at Riverton x	APR-SEP	678.0	960.0	141	164	120				
WIND RIVER below Boysen x	APR-SEP	1163.0	1650.0	141	162	122				
BULL LAKE CREEK near Lenore x	APR-SEP	186.0	250.0	132	153	113				
LITTLE POPO AGIE RIVER near Lander	APR-SEP	53.0	75.2	141	166	117				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	xx USEABLE STORAGE xx THIS YEAR	LAST YEAR	AVE.
BULL LAKE	151.1	52.0	80.1	77.8
BOYSEN	549.9	300.8	291.0	250.1
PILOT BUTTE	31.6	25.2	22.0	26.7

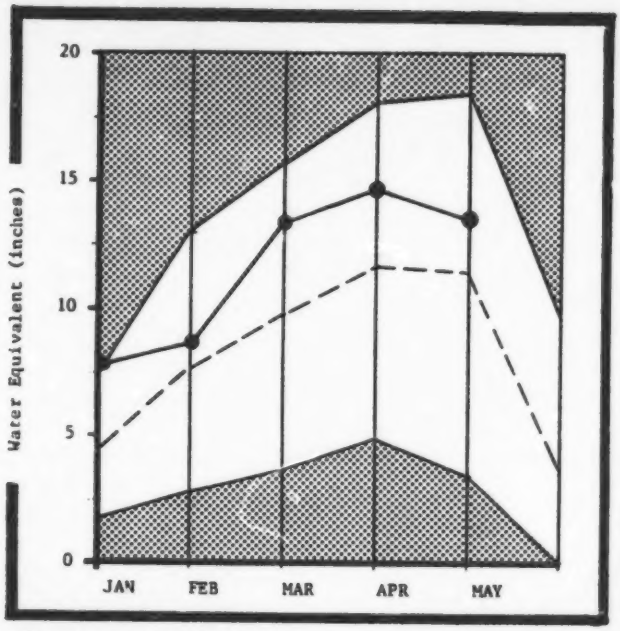
WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
UPPER WIND RIVER	11	171	126
WIND above RIVERTON	18	209	131
POPO AGIE	4	330	141
WIND above BOYSEN	22	226	133

xCorrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

BIGHORN RIVER BASIN

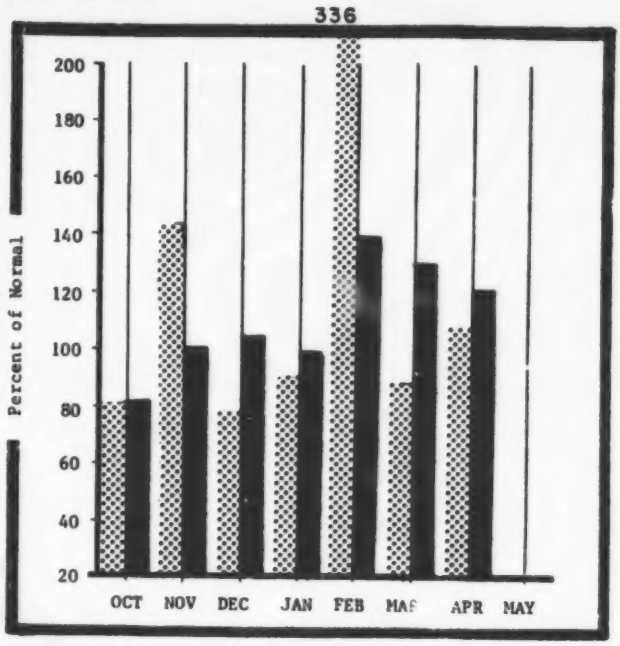
MOUNTAIN SNOWPACK*



*Based on selected stations

Maximum
Average
Minimum
Current

PRECIPITATION*



*Based on selected stations

Monthly precipitation
Year to date precipitation

WATER SUPPLY OUTLOOK:

Streamflow forecasts for this basin are varied. Most of the basin water users can expect near to slightly above average flows. Users along the Shoshone River can expect flows as much as 18% above normal this spring and summer. Nowood River water users can expect below average streamflows. The snowpack is slightly above normal and is considerably greater than last year at this time. Reservoir storage is above average by 48%. April precipitation amounts were about 13% more than normal.

For more information contact your local Soil Conservation Service office.

BIGHORN RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
WIND RIVER below Boysen ¤	APR-SEP	1163.0	1650.0	141	142	122				
SHELL CREEK near Shell	APR-SEP	78.0	78.0	100	135	76				
GREYBULL RIVER at Meeteetse	APR-SEP	215.0	230.0	106	127	87				
SHOSHONE RIVER blw Buffalo Bill ¤	APR-SEP	845.0	1000.0	118	136	100				
CLARKS FORK near Belfry	MAY-SEP	606.0	667.0	110	129	91				
SOUTH FORK SHOSHONE near Valley	APR-SEP	278.0	300.0	107	128	85				
NOWOOD RIVER near Tensleep	MAR-SEP	71.0	70.0	98	118	79				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	¤ USEABLE STORAGE ¤¤ THIS YEAR	LAST YEAR	AVE.
BOYSEN	549.9	500.5	291.0	250.1
BUFFALO BILL	373.1	293.7	213.0	133.2
BIGHORN LAKE	1356.0	709.1	851.8	633.1

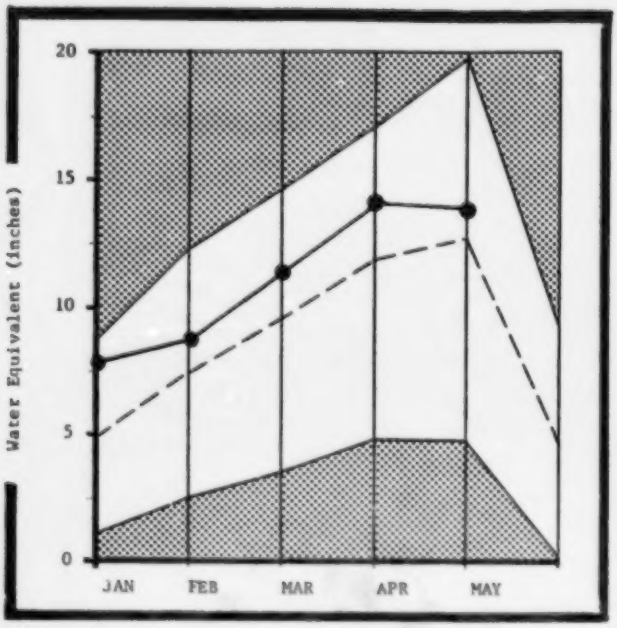
WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
SHOSHONE RIVER	8	445	123
NOWOOD RIVER	5	177	89
GREYBULL RIVER	4	262	129
SHELL CREEK	7	154	107
BIGHORN (Boysen-Bighorn)	31	209	112

¤Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

POWDER AND TONGUE RIVER BASINS

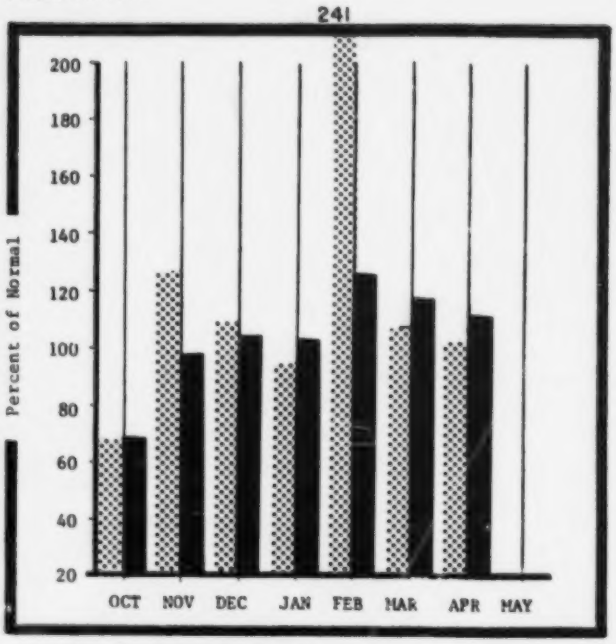
MOUNTAIN SNOWPACK*



*Based on selected stations

Maximum
Minimum
Average
Current

PRECIPITATION*



*Based on selected stations

Monthly precipitation
Year to date precipitation

WATER SUPPLY OUTLOOK:

Snowpack accumulation is just slightly above normal. However, when compared to last year, the snowpack is nearly 77% greater. Streamflows will vary between slightly below average to slightly above average. The upper drainage of Crazy Woman Creek is expected to flow about 7% below average, while most of the rest of the basin will be about 5% above average. Storage reservoir amounts are about 29% below average. Precipitation during April was near normal.

For more information contact your local Soil Conservation Service office.

POWDER and TONGUE RIVER BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
TONGUE RIVER near Dayton *	APR-SEP	123.0	115.0	93	119	68				
MIDDLE FORK POWDER near Barnum	APR-SEP	21.6	21.5	99	130	69				
NORTH FORK POWDER near Hazelton	APR-SEP	10.6	11.1	104	132	75				
CLEAR CREEK near Buffalo	APR-SEP	40.0	42.5	106	138	78				
ROCK CREEK near Buffalo	APR-SEP	25.4	26.5	104	134	75				
PINEY CREEK at Kearny	APR-SEP	54.8	57.5	104	135	75				
LITTLE BIGHORN at Hardin, MT	MAY-SEP	157.0	213.0	135	194	91				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
TONGUE RIVER	68.0	29.3	36.4	40.0

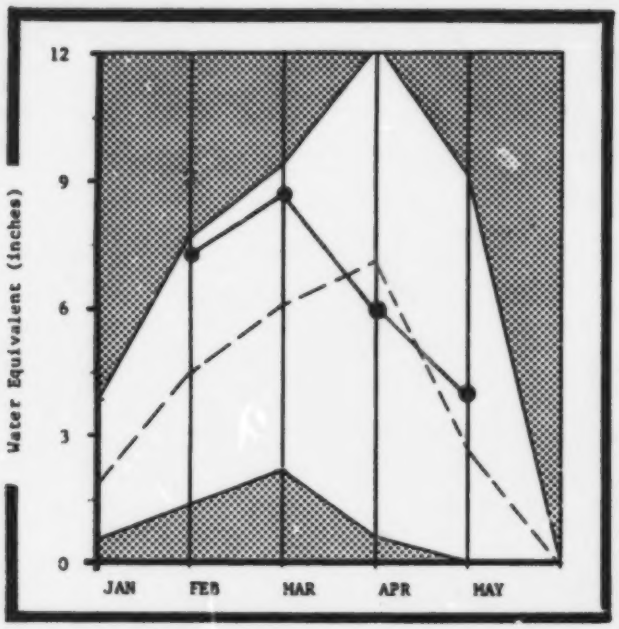
WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
UPPER TONGUE RIVER	12	160	103
GOOSE CREEK	6	170	104
CLEAR CREEK	3	0	114
CRAZY WOMAN CREEK	3	215	86
POWDER RIVER	27	144	98

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

BELLE FOURCHE AND CHEYENNE RIVER BASINS

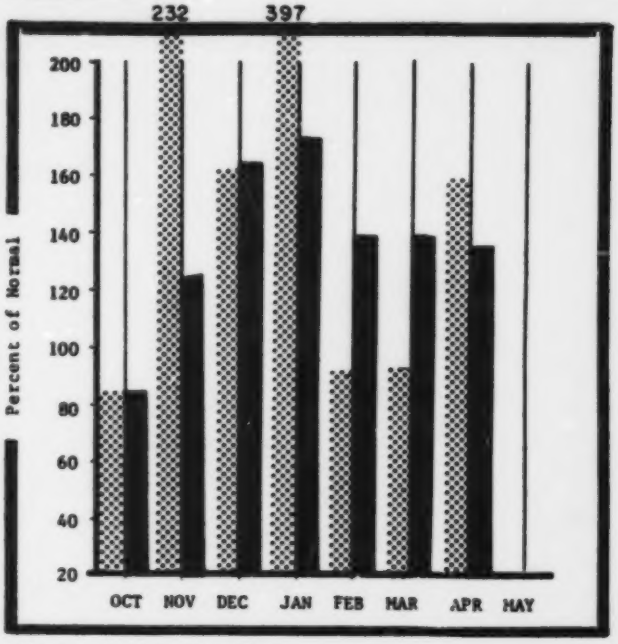
MOUNTAIN SNOWPACK*



*Based on selected stations

Maximum
Minimum
Average
Current

PRECIPITATION*



*Based on selected stations

Monthly precipitation
Year to date precipitation

WATER SUPPLY OUTLOOK:

Water users can expect near normal streamflows this spring and summer. Snowpack accumulation is above normal for the basin. Stored water in the basin is 5% above normal and nearly 15% greater than last year. April precipitation was 60% above average, with the water year to date accumulation being nearly 35% above average.

For more information contact your local Soil Conservation Service office.

BELLE FOURCHE and CHEYENNE RIVER BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	MEAS. MAX. (% AVE.)	MEAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
-No forecasts issued in this area-										

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
ANGOSTURA	86.2	126.4	63.0	77.0
BELLE FOURCHE	185.2	122.2	168.4	157.2
DEERFIELD	15.1	13.3	15.0	14.7
KEYHOLE	190.4	67.8	74.3	129.3
PACTOLA	55.0	49.0	55.0	52.2
SHADEHILL	81.5	143.4	78.0	44.8

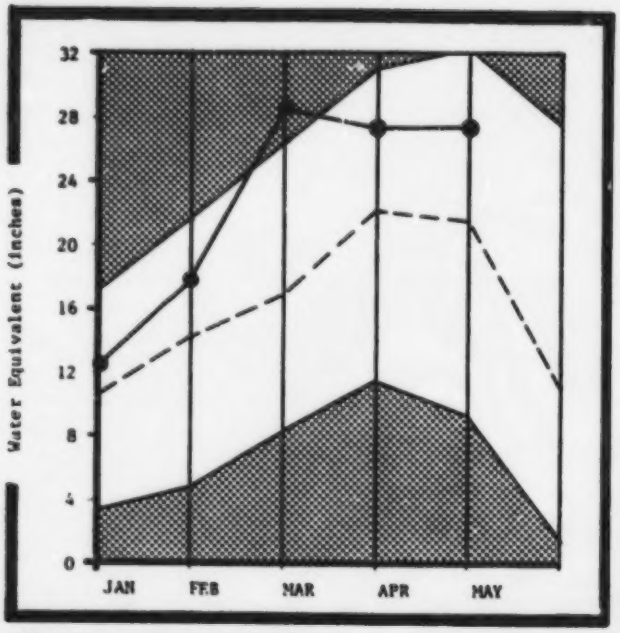
*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.0	THIS YEAR AS % OF LAST YR.	AVERAGE
BELLE FOURCHE	2	0	00

UPPER NORTH PLATTE AND LITTLE SNAKE RIVER BASINS

MOUNTAIN SNOWPACK*



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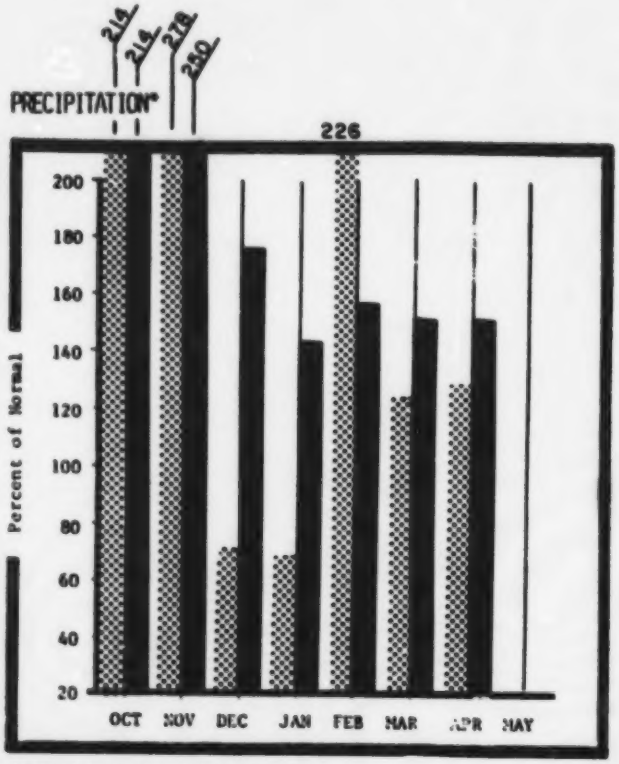


*Based on selected stations

Monthly precipitation
Year to date precipitation

WATER SUPPLY OUTLOOK:

Streamflow forecasts for the upper North Platte River drainage shows that water users can expect flows to be about 33% above average. The Little Snake River water users can expect flows to be about 20% above average. Snowpack accumulation is about 18% above normal and nearly 27% greater than last year. Precipitation during April was about 29% above average, with the year to date accumulation being 50% above average. Reservoir storage is only about one-half of last year, but is nearly 36% above normal.

For more information contact your local Soil Conservation Service office.

UPPER NORTH PLATTE and LITTLE SNAKE RIVER BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
NORTH PLATTE RIVER near Northgate	APR-SEP	262.0	330.0	133	152	114				
NORTH PLATTE RIVER near Sinclair	APR-SEP	710.0	827.0	116	134	102				
ENCAMPMENT RIVER near Encampment	APR-SEP	156.0	200.0	128	148	108				
ROCK CREEK near Arlington	APR-SEP	57.6	73.0	126	148	104				
LITTLE SNAKE RIVER near Dixon *	APR-SEP	320.0	390.0	121	147	97				
LITTLE SNAKE near Slater, CO *	APR-SEP	150.0	206.0	129	155	105				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
SEMINOE	1017.3	488.5	842.0	328.2

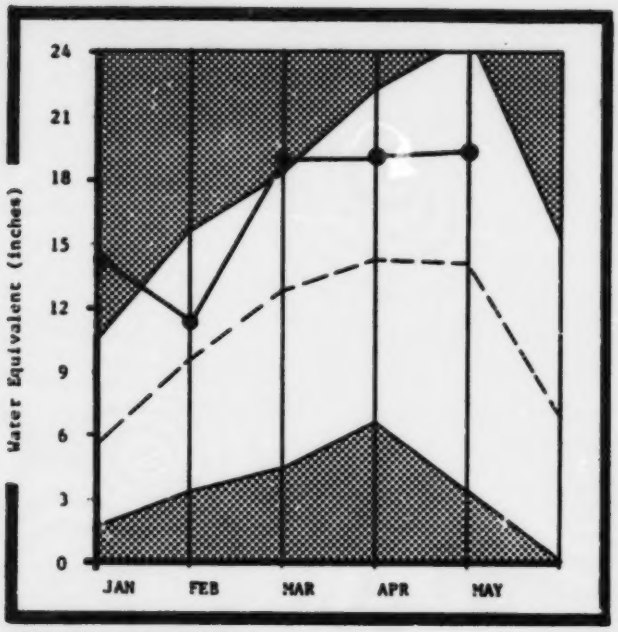
WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.@	THIS YEAR AS % OF LAST YR.	AVERAGE
UPPER NORTH PLATTE	13	128	119
ENCAMPMENT RIVER	3	137	124
BRUSH CREEK	3	125	117
MEDICINE BOW & ROCK CREEK	3	132	114
N. PLATTE above SEMINOE	20	140	125
UPPER LITTLE SNAKE RIVER	2	109	101
SAVERY CREEK	2	121	112

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

LOWER NORTH PLATTE, SWEETWATER, AND LARAMIE RIVER BASINS

MOUNTAIN SNOWPACK*



*Based on selected stations

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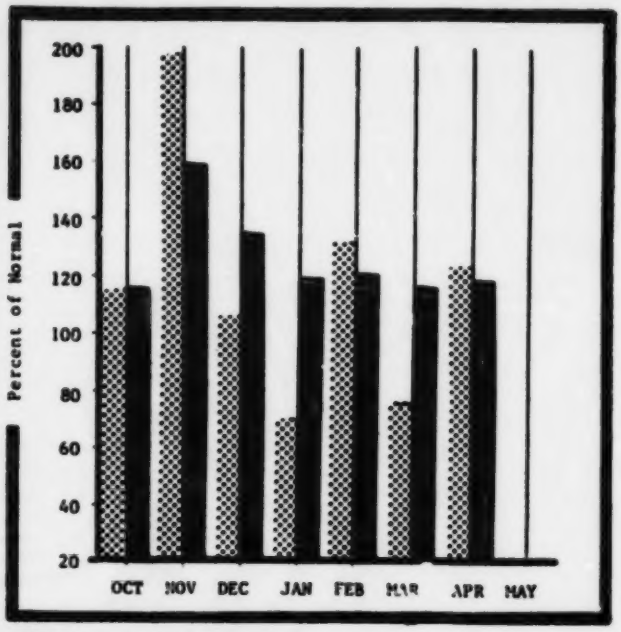
Average

Current

PRECIPITATION*



*Based on selected stations

Monthly precipitation

Year to date precipitation

WATER SUPPLY OUTLOOK:

Streamflow forecasts for Deer Creek and LaPrele Creek are the only dark spots on an otherwise bright picture for this basin. These creeks are expected to flow only about 60% of normal this spring and summer. The remainder of the basin is expected to have flows ranging from 20% to 40% above normal. The snowpack is about 29% above average for most of the basin. Storage in basin reservoirs is about the same as last year, and is nearly 27% above average. Precipitation for the month was above normal.

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For more information contact your local Soil Conservation Service office.

LOWER NORTH PLATTE, SWEETWATER, and LARAMIE RIVER BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
NORTH PLATTE RIVER near Sinclair	APR-SEP	710.0	839.0	118	130	108				
SWEETWATER RIVER near Alcova	APR-SEP	73.7	129.0	175	212	145				
DEER CREEK at Glenrock	APR-SEP	51.8	31.8	61	186	19				
LaPRELE CREEK above Reservoir	APR-SEP	33.7	20.5	60	104	21				
NORTH PLATTE RIVER blw Glendo *	APR-SEP	973.0	1075.0	110	136	95				
NORTH PLATTE R. blw Guernsey *	APR-SEP	1001.0	1129.0	111	137	96				
LARAMIE RIVER near Woods *	APR-SEP	132.0	189.0	136	161	112				
LITTLE LARAMIE RIVER near Filmore	APR-SEP	65.1	89.0	122	147	98				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
ALCOVA	184.3	180.7	181.6	180.5
GLENDO	789.4	513.0	475.0	465.9
GUERNSEY	45.6	44.9	31.0	34.5
PATHFINDER	1016.5	973.7	875.0	887.7
SEMINOE	1017.3	488.5	842.0	388.2
WHEATLAND #2	98.9	81.7	86.0	94.6
NORTH PLATTE PROJ	1042.1	975.7	1092.0	910.3
KENDRICK PROJECT	1201.7	1096.4	1050.0	779.5
GLENDO PROJECT USERS	183.2	129.1	135.0	137.6

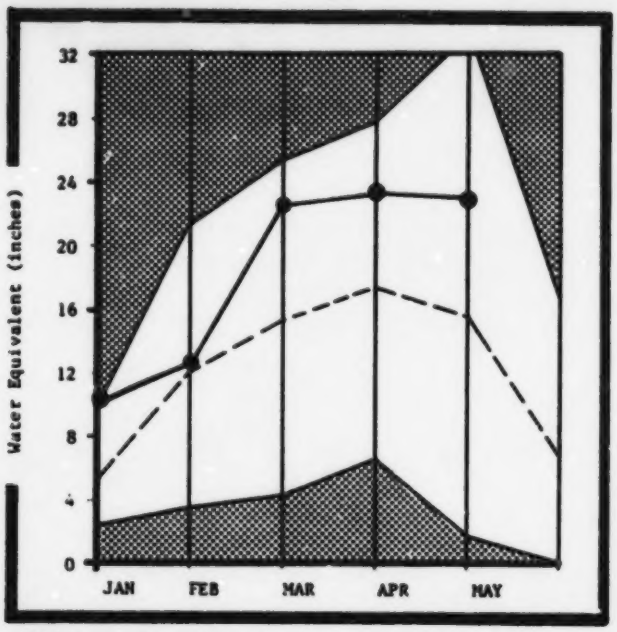
WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
SWEETWATER	4	401	179
DEER & LaPRELE CREEKS	2	204	83
N. PLATTE above LARAMIE	14	137	111
LITTLE LARAMIE RIVER	4	144	108
UPPER LARAMIE RIVER	8	150	122
LARAMIE RIVER above MOUTH	15	157	118
NORTH PLATTE in WYOMING	51	158	124

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-90 period.

UPPER GREEN RIVER BASIN

MOUNTAIN SNOWPACK*



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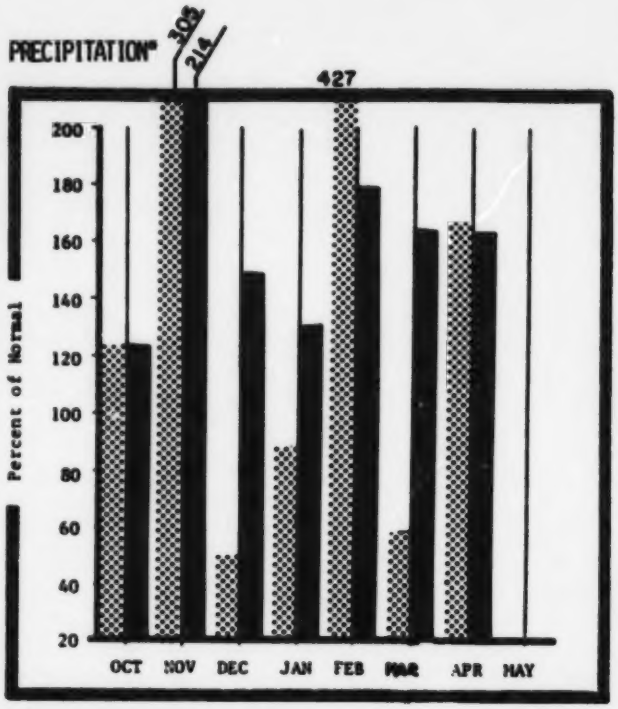
PRECIPITATION*



*Based on selected stations

Monthly precipitation
Year to precipitation

WATER SUPPLY OUTLOOK:

This basin's water users can expect streamflows as much as 46% above average. Snowpack accumulation is nearly 51% above normal and is 157% greater than last year. Most of the low elevation snow in the basin is gone, with snowmelt begining at some of the higher elevations. April precipitation was much above average at 168%. Water users should have abundant water to meet their needs.

For more information contact your local Soil Conservation Service office.

UPPER GREEN RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	MEAS. MAX. (% AVE.)	MEAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
GREEN RIVER near Warren Bridge	APR-SEP	326.0	475.0	145	160	132				
FONTENELLE RESERVOIR Inflow	APR-JUL	869.0	1350.0	155	169	141				
LaBARGE CREEK at LaBarge Meadows	APR-SEP	8.9	13.0	146	169	124				
BIG SANDY RIVER near Big Sandy	APR-SEP	61.0	93.0	152	172	120	1250			

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
BIG SANDY		NO REPORT		
EDEN		NO REPORT		
FLAMING GORGE	3749.0	2939.0	3108.7	----
FONTENELLE		NO REPORT		

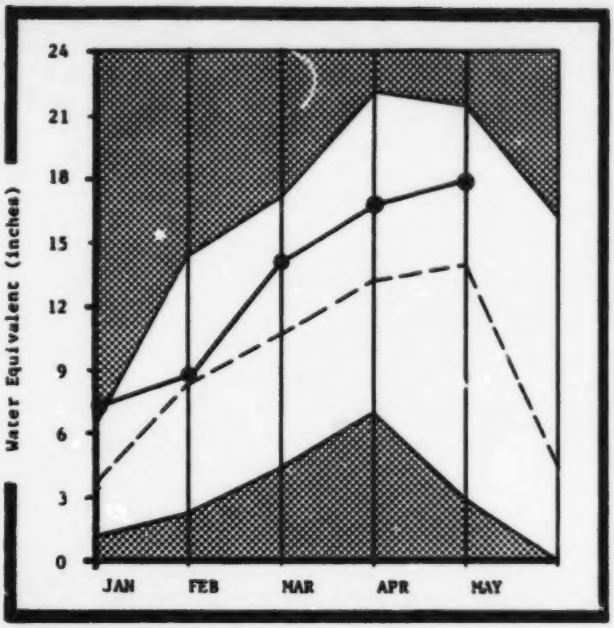
WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
GREEN above WARREN BRIDGE	4	266	145
UPPER GREEN (West Side)	6	199	143
NEWFORK LAKE	3	278	144
BIG SANDY/EDEN VALLEY	2	267	174
GREEN above FONTENELLE	11	234	147

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-90 period.

LOWER GREEN RIVER BASIN

MOUNTAIN SNOWPACK*



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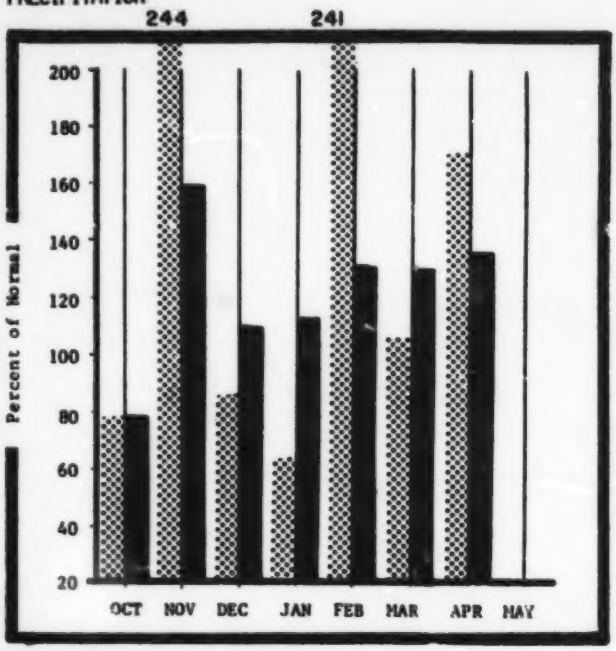


*Based on selected stations

Monthly precipitation
Year to date precipitation

WATER SUPPLY OUTLOOK:

Streamflow forecasts for this part of the Green River drainage shows that water users can expect flow amounting to much above average. Flows will vary from about 30% to nearly 60% above average. Snowpack accumulation continues to be above normal. It is nearly 84% greater than last year and 32% above normal. Reservoir storage is less than last year and about 30% below average. This is due to storage restrictions imposed upon Fontenelle. April precipitation was about 72% above average.

For more information contact your local Soil Conservation Service office.

LOWER GREEN RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
FONTENELLE RESERVOIR Inflow	APR-JUL	869.0	1350.0	155	169	141				
HAMS FORK near Frontier	APR-SEP	71.3	101.0	141	161	122				
GREEN RIVER near Green River, WY *	APR-SEP	1079.0	1475.0	155	175	135				
BLACKS FORK near Milburne, UT	APR-JUL	89.9	125.0	139	164	117				
HENRYS FORK near Manila, UT	APR-SEP	48.0	72.0	150	179	127				
FLAMING GORGE Inflow *	APR-JUL	1248.0	2050.0	164	182	148				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
FONTENELLE		NO REPORT		
FLAMING GORGE	3749.0	2737.0	3108.7	----
VIVA NAUGHTON RES	42.4	18.0	21.4	26.2

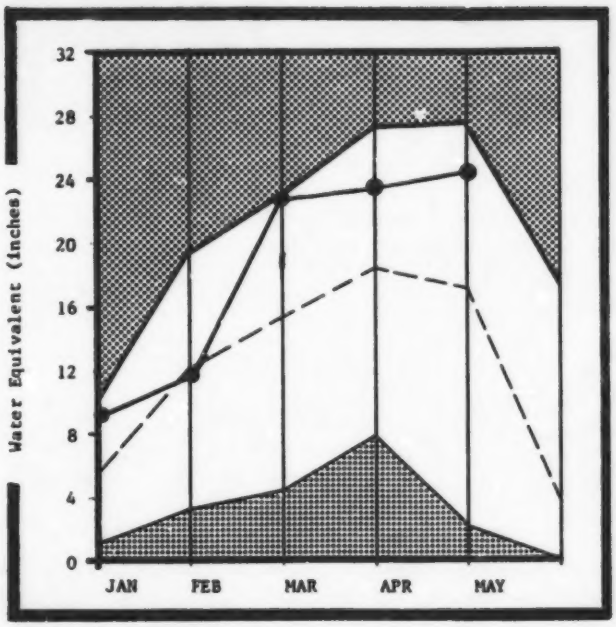
WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
HAMS FORK RIVER	3	206	147
BLACKS FORK	4	160	114
HENRYS FORK	1	179	111
GREEN above FLAMING GORGE	13	230	147

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

UPPER BEAR RIVER BASIN

MOUNTAIN SNOWPACK*



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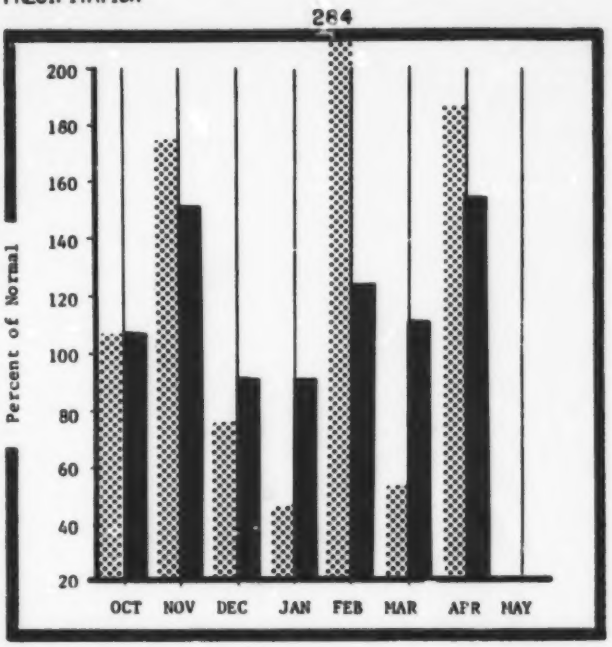
PRECIPITATION*



*Based on selected stations

Monthly precipitation
Year to date precipitation

WATER SUPPLY OUTLOOK:

Water users in this basin can expect abundant water supplies this spring and summer. Flows are forecast to be much above average, in some drainages by as much as 104%. Snowpack accumulation is about 37% above normal, and is 105% above last year. Precipitation during the month was 83% above average, with the year to date accumulation being 19% above average.

For more information contact your local Soil Conservation Service office.

UPPER BEAR RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
SMITHS FORK near Border	APR-SEP	119.0	165.0	138	159	118				
THOMAS FORK near State line	APR-SEP	35.1	55.0	156	177	137				
BEAR RIVER at Utah-Wyoming line	MAY-JUL	105.0	150.0	142	157	131				
BEAR RIVER near Woodruff, UT	MAY-JUL	116.0	162.0	139	169	121				
BEAR RIVER near Randolph, UT	MAY-JUL	82.0	168.0	204	256	154				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	xx USEABLE STORAGE xx THIS YEAR	LAST YEAR	AVE.
WOODRUFF NARROWS	55.8	57.7	55.8	---

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
UPPER BEAR RIVER	3	236	129
SMITHS & THOMAS FORK'S	3	244	132
BEAR RIVER abv IDAHO line	10	219	136

xCorrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

WYOMING

WATER SUPPLY OUTLOOK

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THE FOLLOWING ORGANIZATIONS COOPERATE WITH THE SOIL CONSERVATION SERVICE IN SNOW SURVEY WORK

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- Conservation Districts of Wyoming
- State Engineer of Wyoming
- Department of Water Resrouces of Nebraska
- Irrigation Districts of Wyoming
- University of Wyoming
  - Department of Atmospheric Resources
  - Department of Agricultural Engineering

Federal

- U.S. Department of Agriculture
  - Soil Conservation Service
  - Forest Service
- U.S. Department of Commerce
  - NOAA, National Weather Service
- U.S. Department of Interior
  - Bureau of Reclamation
  - Geological Survey
  - National Park Service
  - Bureau of Indian Affairs
  - Bureau of Land Management

Private

- Utah Power and Light Company
- Eden Valley Irrigation District

Other organizations and individuals furnish information for the snow survey reports. Their cooperation is gratefully acknowledged.

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